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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/617,193	07/11/2003	Yukiko Yamazaki	238193US2 3525		
22850 75	590 12/21/2004	•	EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			ELISCA, PIERRE E		
ALEXANDRIA	•		ART UNIT	PAPER NUMBER	
			3621		
			DATE MAILED: 12/21/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
065	a Aatian Commen	10/617,193	YAMAZAKI ET AL	L. /		
Office Action Summary		Examiner	Art Unit			
		Pierre E. Elisca	3621			
The MA Period for Reply	ILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ad	dress		
THE MAILING - Extensions of time after SIX (6) MON - If the period for rep - If NO period for re - Failure to reply with Any reply received	D STATUTORY PERIOD FOR REPLY DATE OF THIS COMMUNICATION. In may be available under the provisions of 37 CFR 1.13 THS from the mailing date of this communication. In ply specified above is less than thirty (30) days, a reply ply is specified above, the maximum statutory period within the set or extended period for reply will, by statute, if by the Office later than three months after the mailing in adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).	ily. communication.		
Status						
1) Respons	sive to communication(s) filed on <u>28 Se</u>	eptember 2004.				
2a)⊠ This acti	on is FINAL . 2b) This	action is non-final.				
3) Since thi	since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in	accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Cla	aims					
4a) Of the 5) ☐ Claim(s) 6) ☑ Claim(s) 7) ☐ Claim(s)	55-86 is/are pending in the application above claim(s) is/are withdray is/are allowed. 55-86 is/are rejected. is/are objected to. are subject to restriction and/or	vn from consideration.		-		
Application Paper	rs					
10) The draw Applicant Replacem	ification is objected to by the Examine ing(s) filed on is/are: a) accessing an accessing and request that any objection to the content drawing sheet(s) including the correction or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	` '		
Priority under 35	U.S.C. § 119					
12) Acknowled a) All b) 1. Ce 2. Ce 3. Ce ap	edgment is made of a claim for foreign on Some * c) None of: entified copies of the priority documents opies of the priority documents opies of the certified copies of the priority documents opies of the certified copies of the prioriplication from the International Bureau tached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National	Stage		
Attachment(s)	Oited (DTO 200)					
	erson's Patent Drawing Review (PTO-948) osure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	O-152)		
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)		tion Summary Pa	rt of Paper No./Mail D	ate 20041220		

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DETAILED ACTION

1. This Office action is in response to Applicant's amendment filed on 09/24/2004.

2. Claims 1-54 are canceled and claims 55-86 are added.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 55-86 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Horiike (U.S. Pat. No. 6,744,905) in view of Harrington (U.S. Pat. No. 6,636,616). As per claims 55, 59-60, 63, 67-68, 71, 75-76, 79, and 83-84, Horiike substantially discloses an image processing apparatus that has an input unit for inputting a plurality set of drawing data representing one frame image a generating unit for generating first intermediate language data representing a watermark to be added to the one frame image and generating second intermediate language data by analyzing the drawing data input from the input unit and a producing unit for producing final print image data, comprising:

An input device configured to input an original image composed of a character (see., see., abstract, col 1, lines 44-67, col 2, lines 15-33, please not that background process

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device is readable as the producing unit of Horiike since his producing unit is for producing final print image data);

A background generating device (see., watermark, abstract, col 1, lines 44-67, col 2, lines 15-33, col 3, lines 22-67, col 4, lines 44-67). It is to be noted that Horiike fails to explicitly disclose that his watermark is a dither and error diffusion methods in accordance with one of a number of bits, a number of lines, and density. However, Harrington discloses a method and apparatus for digital watermarking using error diffusion. The method also includes a plurality of stored pixels representing an image, and a lesser level of gray while attempting to preserve an overall gray density of the images (see., abstract, figs 1-7, col 1, lines 13-67, col 2, lines 1-22, col 3, lines 3-67, col 4, lines 1-62). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the image processing of Horiike by including the limitation detailed as taught by Harrington because this would modify the biasing pattern for pixels that are positioned within the watermark.

As per claims 56-58, 64-66, 72-74, and 80-82, Harrington discloses the claimed limitation wherein the embedding device embeds the information by applying one of pixel and frequency conversions (see., abstract, col 3, lines 46-67, col 4, lines 12-24).

As per claims 61, 62, 69, 70, 77-78, and 85-86 Harrington discloses the claimed limitation wherein the original image is a full-color image and only brightness is processed (see., col 4, lines 12-24).

RESPONSE TO ARGUMENTS

5. Applicant's arguments filed on 09/28/2004 have been fully considered but they are moot in view of new ground (s) of rejection. Necessitated by amendment.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre E. Elisca whose telephone number is 703 305-3987. The examiner can normally be reached on 6:30 to 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on 703 305-9769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pierre Eddy Elisca

Primary Patent Examiner

December 20, 2004